

DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Wasco Products, Inc. 85 Spencer Drive – Unit A (P. O. Box 559) Wells, Maine 04090

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Pinnacle HU Gabled Skylight and HU-OPY Octagonal Skylight

APPROVAL DOCUMENT: Drawing No. 06-063 titled "Pinnacle HU Gabled Skylight and HU-Opy Hurricane Resistant Octagonal Skylight", sheets 1 through 27 of 27, dated 06/24/10, Last revision #1 dated 06/24/10, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit jr., P.E., on 10/24/11, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 11-0602.08 and consists of this page 1 and evidence submitted pages E-1, E-2, & E-3, as well as approval document mentioned above.

Heling A. Melon 03/08/2012

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

NOA No. 11-1227.06 Expiration Date: 02/22/2017 Approval Date: 03/08/2012 Page 1

Wasco Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-0816.05 A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 06-173 titled "Pinnacle HU Gabled Skylight with L.M. Impact Resistant Laminated /Insulated Glass", sheets 1 through 15 of 15, dated 01/15/07 prepared by Tillit Testing & Engineering Company signed and sealed by Walter A. Tillit ir, P.E.

B. TESTS

- 1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings of "Pinnacle HU Test units", prepared by American Test Lab of South Florida, Test Report No. ATLSF # 1107.01-05, dated 07/10/06, signed and sealed by William R. Mehner P.E.

C. CALCULATIONS

1. Skylight Calculations and structural analysis, complying with FBC-2004, prepared by Tillit Testing & Engineering Company signed and sealed by Walter A. Tillit jr. P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 06-1205.10 issued to E.I. DuPont DeNemours for "Sentry Glass Plus dated 01/14/07, expiring on 01/14/2012.

F. STATEMENTS

- 1. Statement letter of conformance to FBC 2004, dated January 15 2007, signed and sealed by Walter A. Tillit jr. P.E.
- 2. Statement letter of no financial interest, dated July 27, 2006, signed and sealed by Walter A. Tillit jr. P.E.

G. OTHER

1. None.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1227.06

Expiration Date: 02/22/2017 Approval Date: 03/08/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0602.08

A. DRAWINGS

1. Drawing No. 06-063 titled "Pinnacle HU Gabled Skylight and HU-Opy Hurricane Resistant Octagonal Skylight", sheets 1 through 27 of 27, dated 06/24/10, Last revision #1 dated 06/24/10, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit jr., P.E., on 10/24/11

B. TESTS

- 1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings of HU-Opy Hurricane Resistant Octagonal Skylight, prepared by American Test Lab of South Florida, Test Report No. **ATLSF** # **0519.01-09**, dated 07/02/09, signed and sealed by Edmundo Largaespada, P.E.

C. CALCULATIONS

1. Skylight Calculations and structural analysis, 40 pages, complying with FBC-2007, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit jr., P.E., on 07/07/10.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs.

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 06-1205.10 issued to E.I. DuPont DeNemours for "Sentry Glass Plus dated 01/14/07, expiring on 01/14/2012.

F. STATEMENTS

- 1. Statement letter of conformance to FBC 2007, dated May 16, 2011, signed and sealed by Walter A. Tillit jr. P.E.
- 2. Statement letter of no financial interest, dated May 16, 2011, signed and sealed by Walter A. Tillit jr. P.E.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1227.06

> Expiration Date: 02/22/2017 Approval Date: 03/08/2012

Wasco Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 3. NEW EVIDENCE SUBMITTED
- A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S.

PERA, Product Control Unit Supervisor NOA No. 11-1227.06

Expiration Date: 02/22/2017 Approval Date: 03/08/2012

PINNACLE H.U GABLED SKYLIGHT W/ L.M. IMPACT RESISTANT LAMINATED / INSULATED GLASS (VALID ONLY FOR SHEETS 1 THRU 15)

GENERAL NOTES:

1. PINNACLE H.U GABLED SKYLIGHT W/ L.M. IMPACT RESISTANT LAMINATED / INSULATED GLASS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE. THIS SKYLIGHT MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES.

DESIGN LIVE AND WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1616 AND 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT FASTENERS AND ANCHORS ON THIS P.A.D. ARE NOT OVERSTRESSED FOR EVERY SINGLE APPLICATION OF THIS SKYLIGHT SYSTEM UNDER THE DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS SHALL NOT BE USED IN THEIR ANALYSIS,

1A. SHOP DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE SUBMITTED FOR EVERY PERMIT, DRAWINGS MAY INCLUDE LARGER SKYLIGHT WIDTH, LENGTH AND RISE W/ CORRESPONDING LARGER CROSS SECTION RAFTERS & MULLIONS, BUT PRESSURE RATING AS WELL AS MAX. GLASS PANEL SIZE SHALL NOT EXCEED THOSE INDICATED ON THIS DRAWING. (SEE NOTES 2 AND 11 RESPECTIVELY) THIS P.A.D. COVERS GABLE SHAPE SKYLIGHTS. OTHER SHAPES/CONFIGURATIONS W/ SLOPED GLASS MAY BE ALSO ACCEPTED, PROVIDED THAT ABOVE MENTIONED CONDITIONS ARE COMPLIED WITH. THE DESIGN OF LARGER COMPONENTS FOR LARGER SKYLIGHTS SHALL BE PERFORMED BY A FLORIDA P.E. AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT ON A JOB SPECIFIC BASIS. (SEE NOTES 3 & 20).

2. DESIGN PRESSURE RATING AT ROOF IS: +80.0 pef (WINDWARD SIDE). -80.0pef (LEEWARD SIDE). DESIGN PRESSURE RATING AT WALL IS: +80.0, -80.0 pef.

DESIGN PRESSURE RATING AND LARGE MISSILE IMPACT RESISTANCE OBTAINED THRU TESTING AS PER SECTION 1626.2 OF THE FLORIDA BUILDING CODE, PER PROTOCOLS TAS 201, 202, 203, PER AMERICAN TESTING LABORATORY REPORT # 1107.01-05. WATER AND AIR INFILTRATION TESTING HAS BEEN PERFORMED AS PER PROTOCOL TAS 202, QUALIFYING ASTM E 331 AND ASTM E 283 RESPECTIVELY.

3. STRUCTURAL ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS IS NOT PART OF THIS P.A.D. STRUCTURAL DESIGN OF THE STRUCTURE THAT WILL PROVIDE SUPPORT TO THIS SKYLIGHT SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT. STRUCTURAL DESIGN SHALL INCLUDE AND TAKE INTO CONSIDERATION THE ACTUAL VX AND VY LOADS TRANSFERRED FROM THIS SKYLIGHT TO THE SUPPORT STRUCTURE, BASED ON DEAD, LIVE & WIND LOADS AND USING THE LOAD COMBINATIONS AS PER SECTIONS 2.3 OR 2.4 OF A.S.C.E. 7-05 STANDARD, ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT ON A JOB SPECIFIC BASIS.

~ALUM, RAFTER ALUM, RAFTER IVy SUPPORT. SUPPORT -STRUCTURE.

PRODUCT RENEWED as complying with the Florida Acceptance No 11-1227.06
Expiration Date 02/22/2017 **Building Code**

By Lend Hodge Product Control

- 4. ALL ALUMINUM-EXTRUSIONS SHALL BE ALUMINUM-ASSOCIATION 6063-T6 ALLOY AND TEMPER, UNLESS OTHERWISE NOTED.
- 5. ALL ALUMINUM SHEET SHALL BE ALUMINUM ASSOCIATION 1100-H14 ALLOY AND HARDNESS
- 6. ALL SCREWS TO BE STAINLESS STEEL AISI 304 OR 316 SERIES, WITH MIN. TENSILE LOAD CAPACITY TU=4275# & MIN. ULTIMATE SHEAR LOAD CAPACITY Su=2700#, PER ASTM 8-593 & B-594.
- 7. ALL ALUMINUM POP RIVETS TO BE 5056 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
- 8. BOLTS TO BE STAINLESS STEEL AISI 304 OR 316 SERIES WITH 50 kei Min. YIELD STRENGTH AND 90 kei Min. TENSILE STRENGTH, PER ASTM B-593 AND B-594.
- 9. GLAZING SYSTEM SHALL COMPRISE OF THE FOLLOWING COMPONENTS:
 - 9.1. 1/4"x5/8" TREMCO SGT 921 STRUCTURAL GLAZING TAPES MADE OF OPEN CELL HIGH DENSITY POLYURETHANE WITH A MICROCELLULAR
 - 9.2. SANTOPRENE GLAZING STOP (1/4"x1 1/4"x4", MODIFY TO GLAZING), (2) PER BAY AT 1/4 POINTS AT LOCATIONS SHOWN ON SECTIONS.
 - 9.3. STRUCTURAL SILICONE FOR GLASS SEALANT AT RAFTERS TO BE DOW CORNING 995 SILICONE STRUCTURAL ADHESIVE

- 10. ALL FLASHING TO BE LAPPED AND SET ON A BED OF URETHANE SEALANT.
- 11. GLASS OPTIONS:
 - (a) 9/16" LAMINATED GLAZING CONSISTING OF: 1/4" THICK CLEAR HEAT STRENGTHENED GLASS +0.090" THICK MIAMI-DADE COUNTY APPROVED (NOA # 09-312.03) DUPONT SENTRY GLASS @ INTERLAYER + 1/4" CLEAR HEAT STRENGTHENED GLASS.
 - (b) 1 5/16" INSULATED GLAZING CONSISTING OF: 1/4" THICK CLEAR TEMPERED GLASS +1/2" AIRSPACE W/ ALUMINUM SPACER OVER 9/16" LAMINATED GLASS MADE WITH 1/4" THICK CLEAR HEAT STRENGTHENED GLASS +0.090" THICK MIAMI-DADE COUNTY APPROVED (NOA # 09-312.03) DUPONT SENTRY GLASS @ INTERLAYER + 1/4" CLEAR HEAT STRENGTHENED GLASS.
 - (c) NOTES: MAX GLASS PANEL D.L.O SIZE IS 45 1/2"x94 1/2". MAX GLASS AREA = 32.00 FT2 BETWEEN SUPPORTS.
- 12. ALL WELDING TO CONFORM TO THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 2004 EDITION REGULATIONS. USE CERTIFIED WELDERS. USE ER-4043 (IF NOT ANODIZED FINISH) OR ER-5356 (IF ANODIZED FINISH) ELECTRODES.
- 13. ALUMINUM MEMBERS IN CONTACT WITH CONCRETE SHALL BE PROTECTED ACCORDINGLY WITH SECTION 2003.8.4.4 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE.
- 14. ALUMINUM MEMBERS IN CONTACT WITH STEEL SHALL BE PROTECTED ACCORDINGLY WITH SECTION 2003.8.4.2 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE.
- 15. ALUMINUM MEMBERS IN CONTACT WITH WOOD SHALL BE PROTECTED ACCORDINGLY WITH SECTIONS 2003.8.5 & 2003.8.6 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE.
- 16. PAINT, FINISH AND COLOR TO BE SELECTED BY ARCHITECT OF RECORD FOR THE JOB IN COORDINATION W/ WASCO PRODUCTS, INC. AND SHALL COMPLY WITH AAMA 1600 SPECIFICATION, SECTION 3.11.
- 17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THIS SKYLIGHT IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE, SEE NOTE 3 ABOVE. CONTRACTOR IS TO SEAL/CAULK W/ URETHANE SEALANT ALL SKYLIGHT COMPONENT EDGES AS INDICATED ON THIS DRAWING TO PREVENT WIND/RAIN INTRUSION.
- 18. SKYLIGHT INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
- 19. SKYLIGHT MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS: WASCO PRODUCTS

SANFORD, MAINE.

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

- 20. (a) THE PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (a) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (d) SITE SPECIFIC PROJECTS-SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT-WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. PROFESSIONAL OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

SHEET INDEX:

- 1 THRU 15 OF 27: PINNACLE H.U GABLED SKYLIGHT W/ L.M. IMPACT RESISTANT LAMINATED- / INSULATED GLASS.
- 16 THRU 27 OF 27: HU-OFY HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED / INSULATED GLASS.

A. TILLIMAN WALTER A. TILL PRODUCT REVISED as complying with the Florida **Building Code** Acceptance No | -0602.08 Expiration Date 62 / 22/20/2 No. 44167 0 P.E. SEAL SICNATURE DATE

@2010 TILTECO, INC TILLIT TESTING & ENGINEERING COMPANY 6365 N.W. 36th, St., Ste. 305, VARGINIA CARDENS, Pl. 33166 Phone: (305)871-1630 Fox: (305)871-1531 s-moil: tiltecopgoi.com

EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA LIG. # 44167

PINNACLE H.U GABLED SKYLIGHT W/ L.M. IMPACT RESISTANT LAMINATED/ INSULATED GLASS.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

08/24/10

WASCO PRODUCTS, INC. 85 SPENCER DRIVE - UNIT A WELLS, ME 04090 (207) 218-4529 FAX: (207) 218-4866

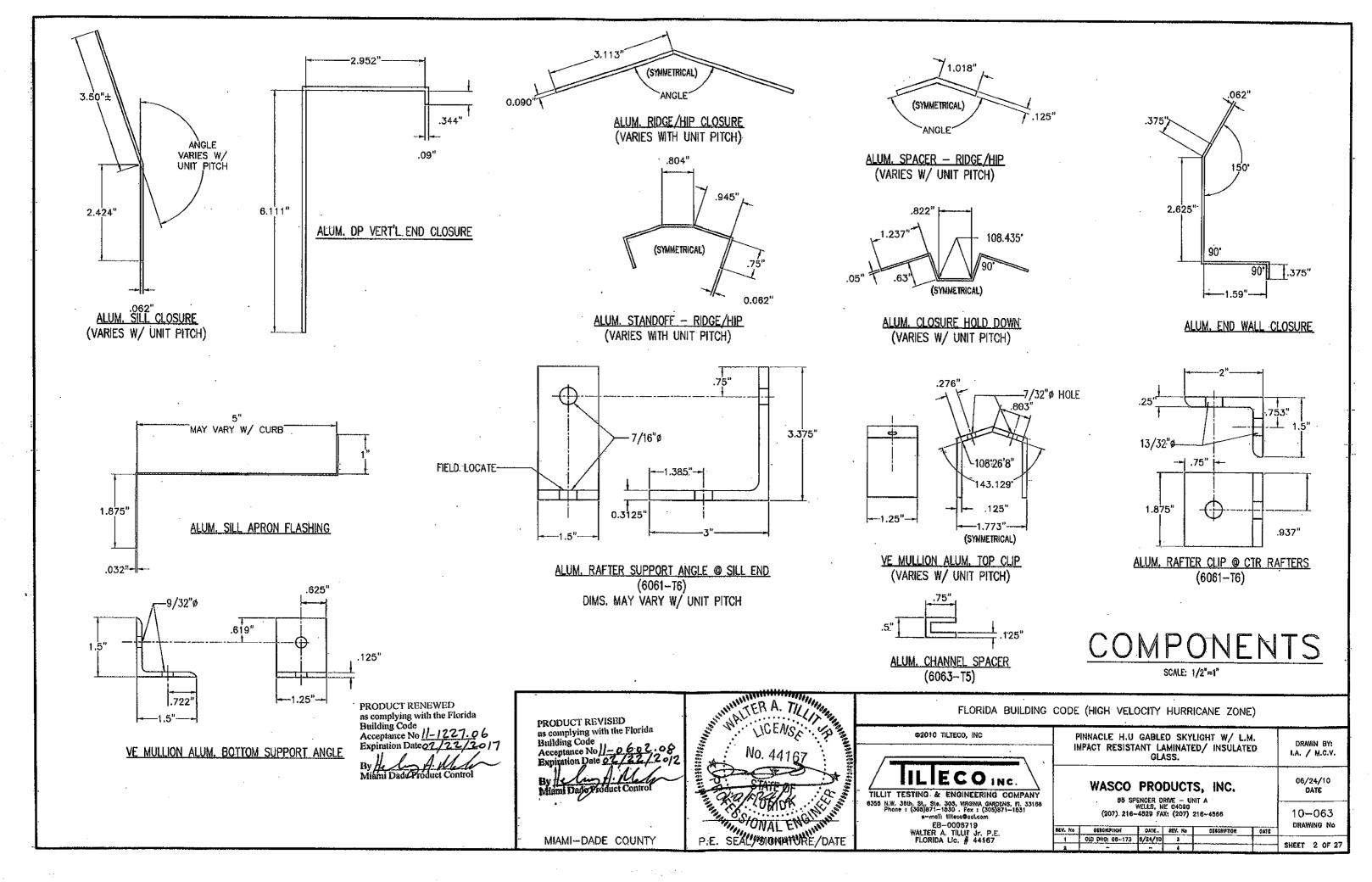
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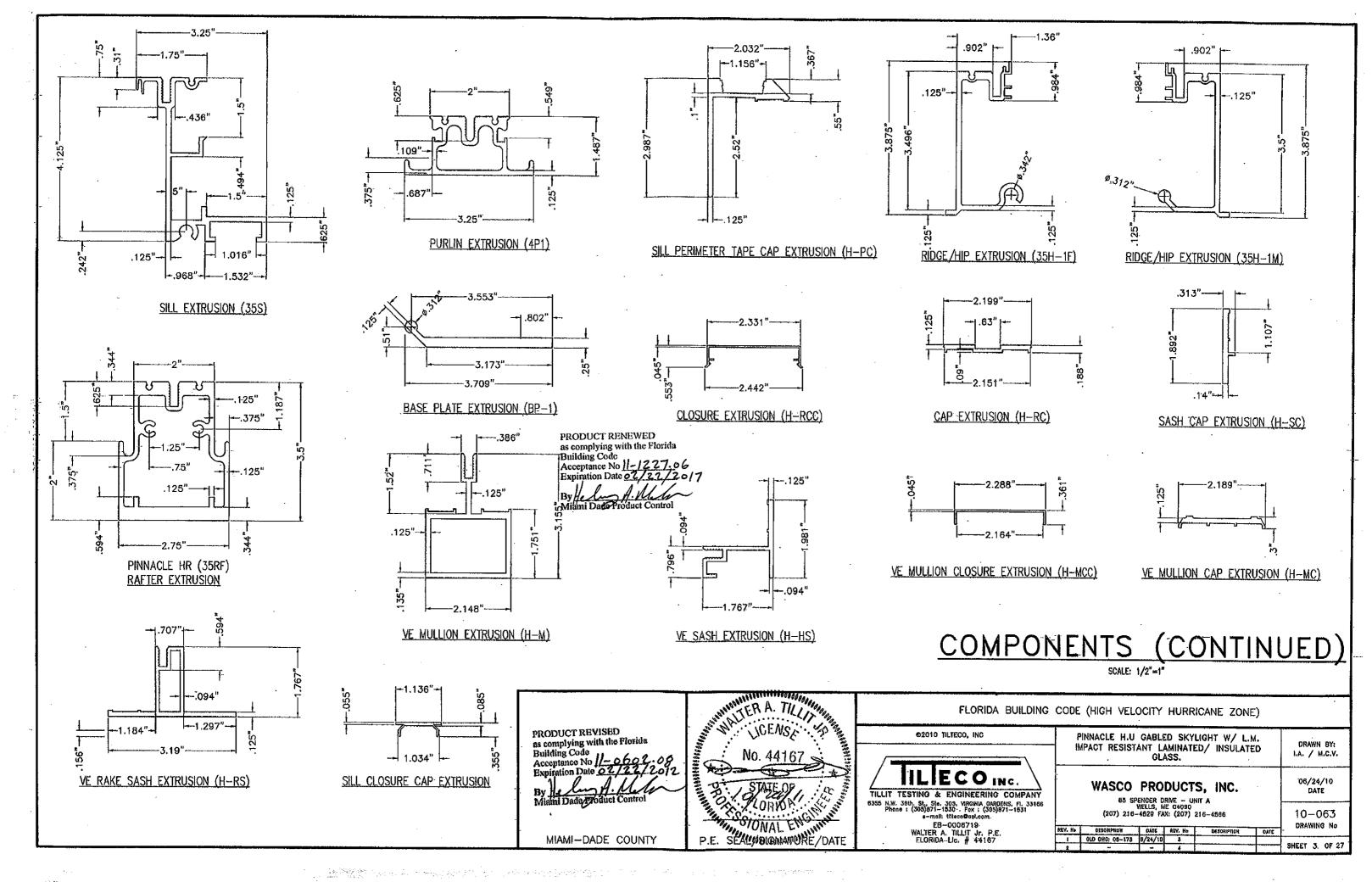
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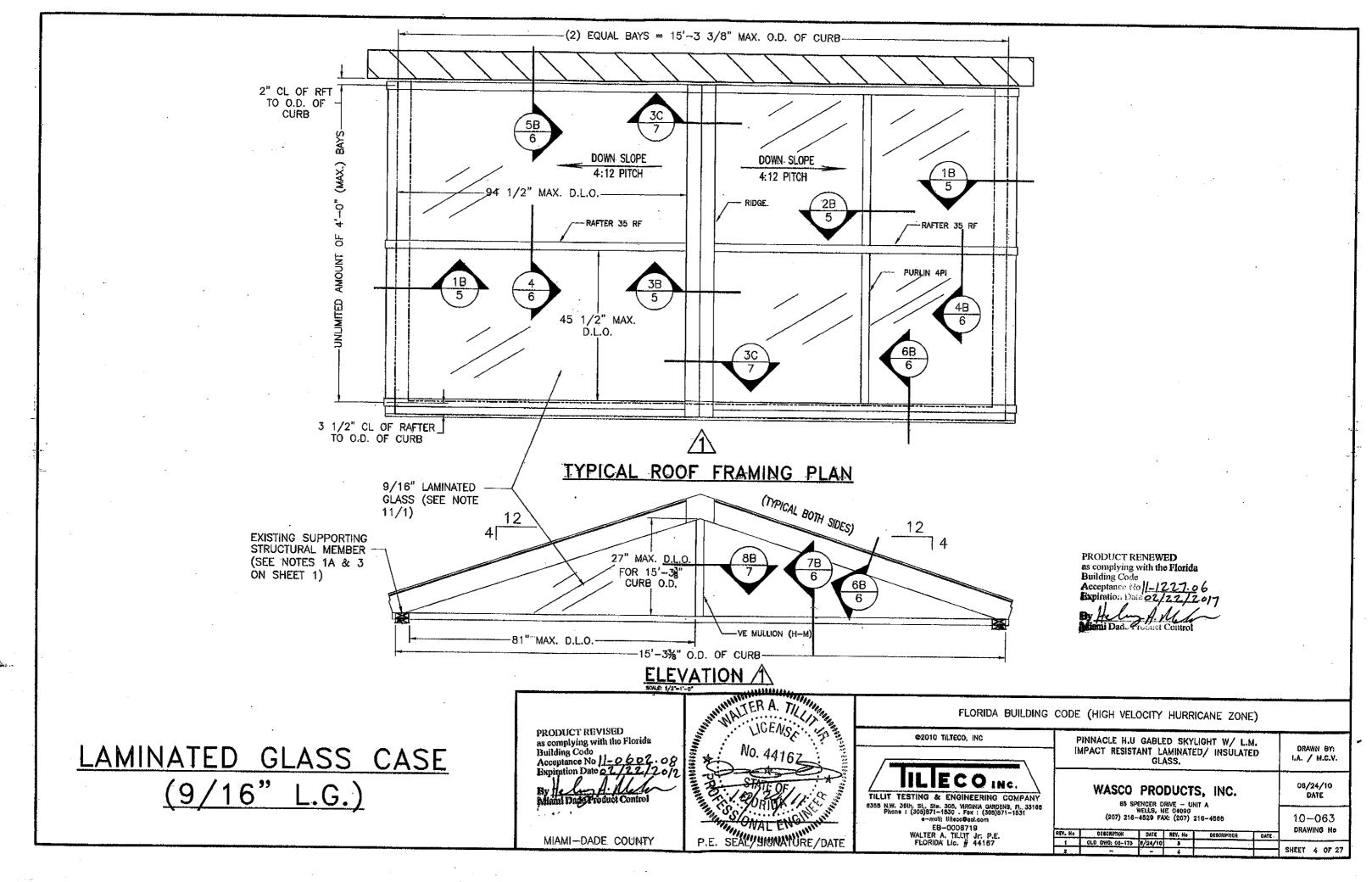
10 - 063DRAWING No SHEET 1 OF 27

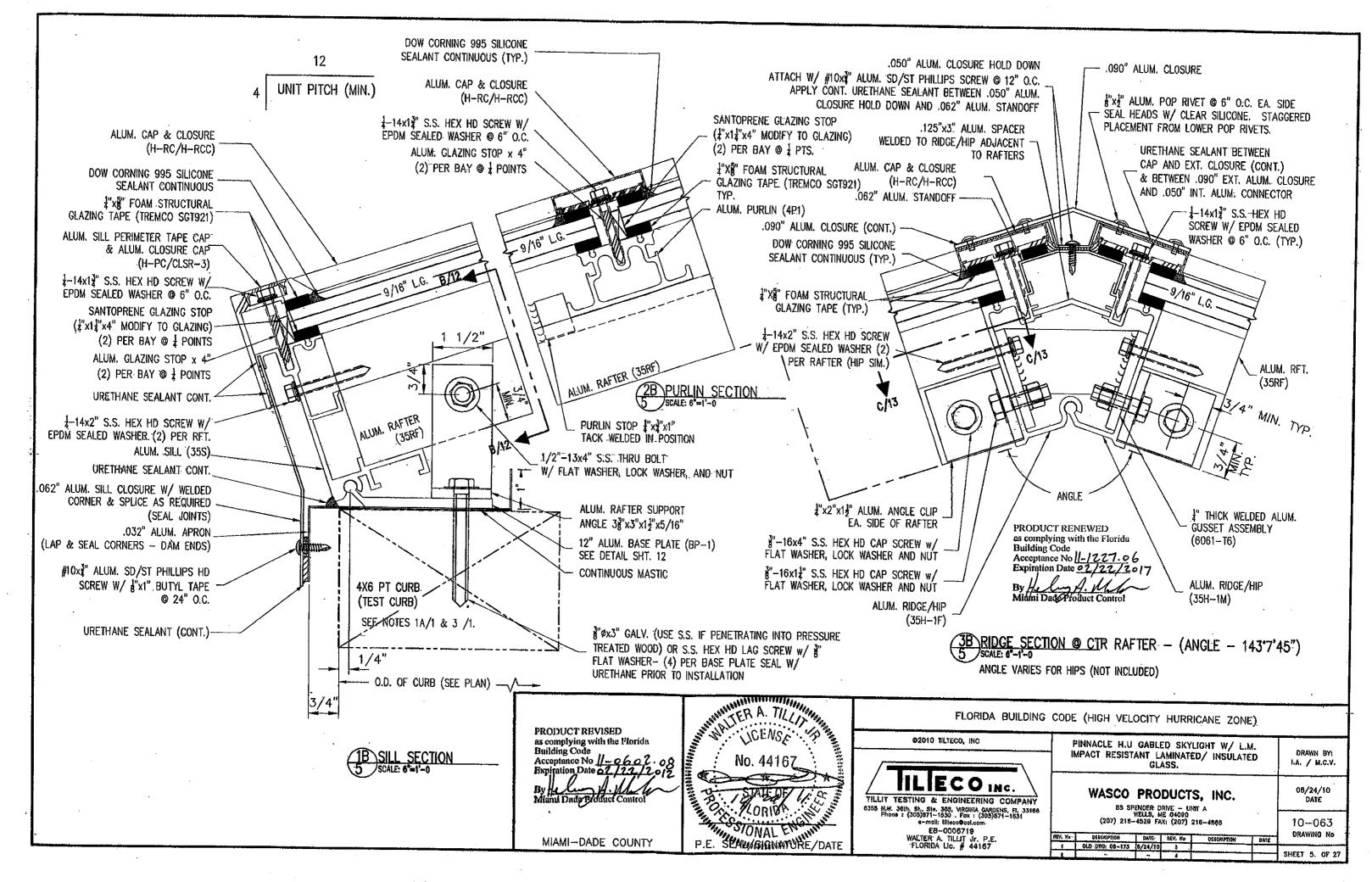
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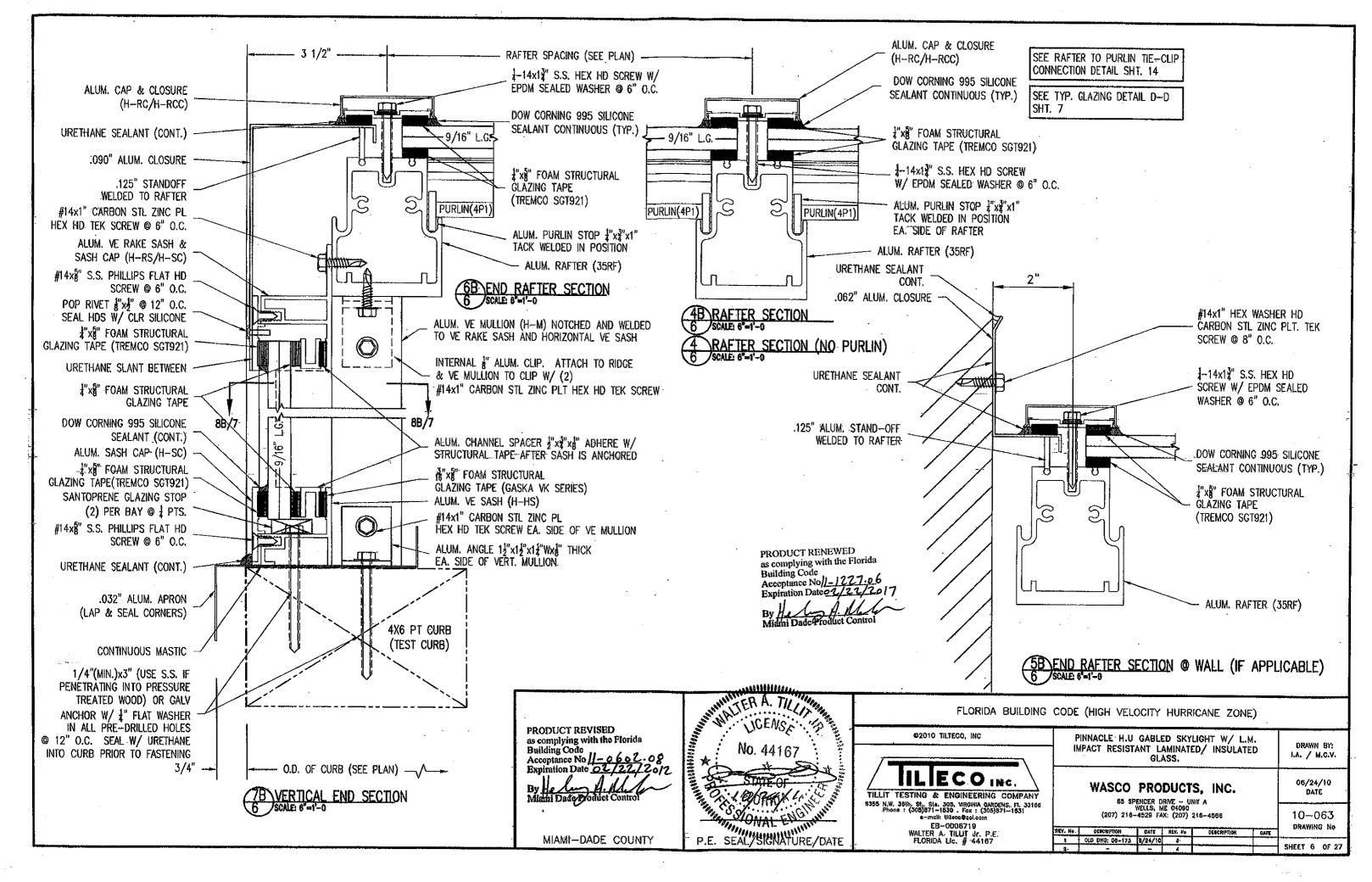
MIAMI-DADE COUNTY

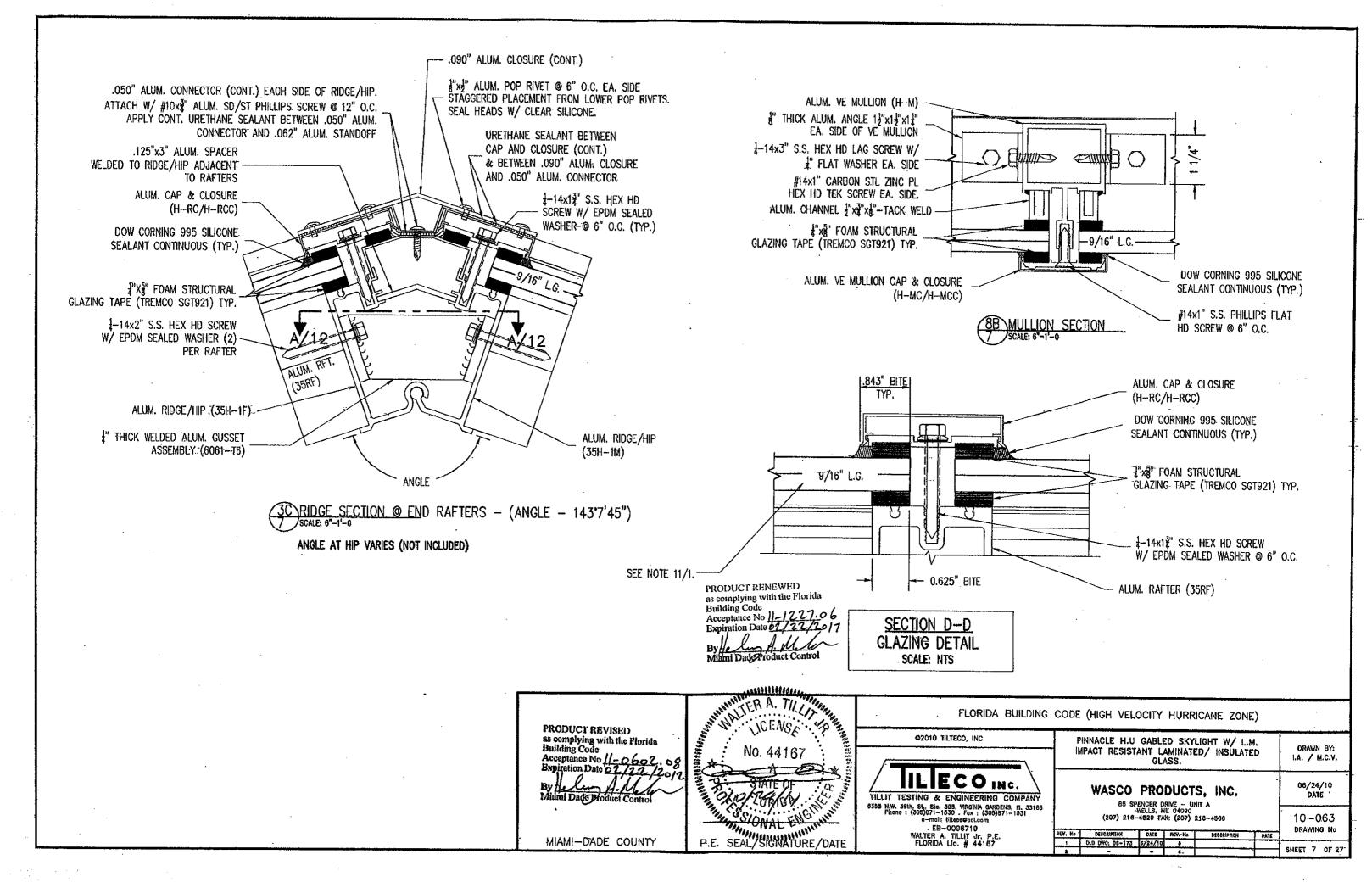


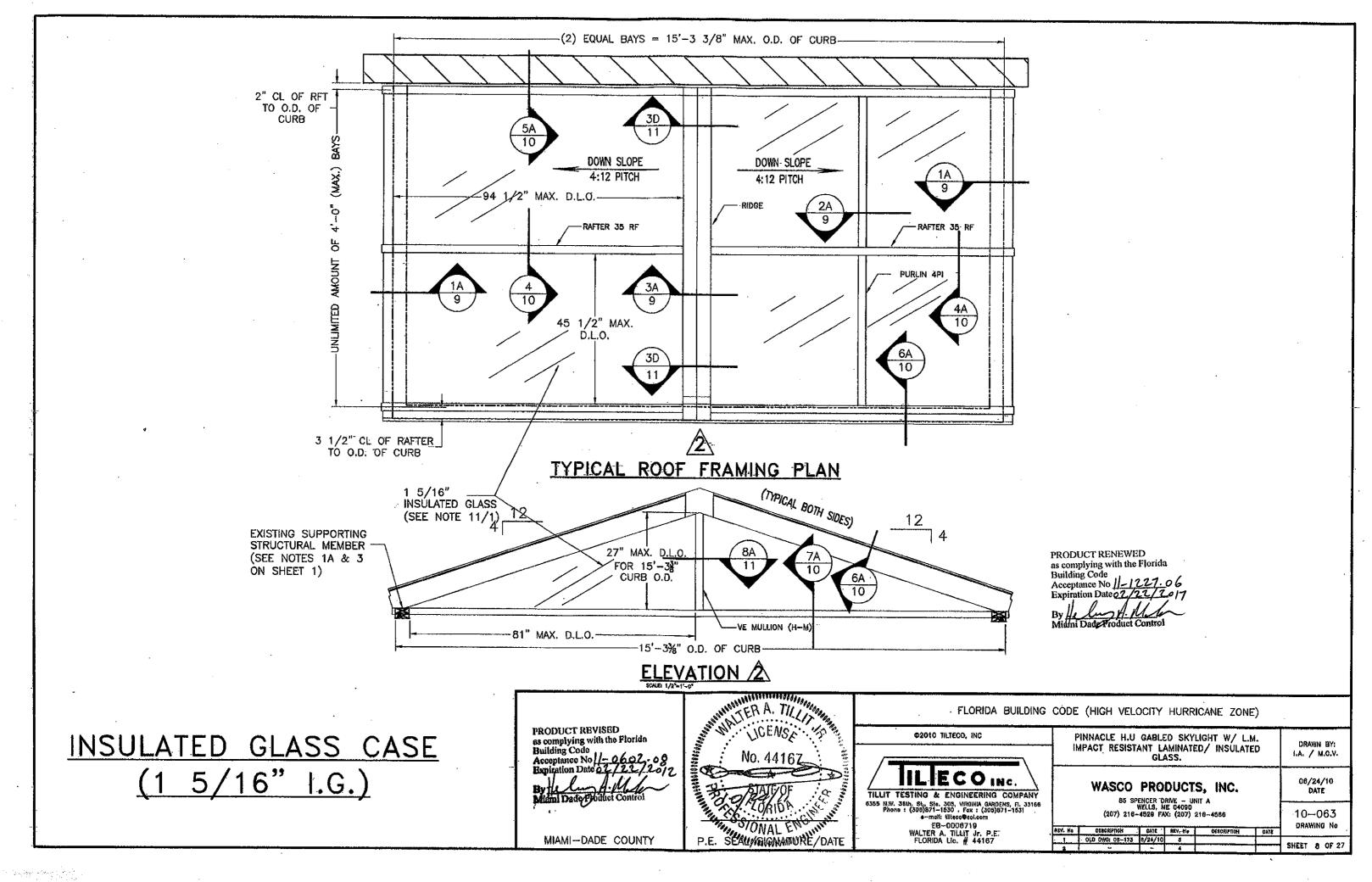


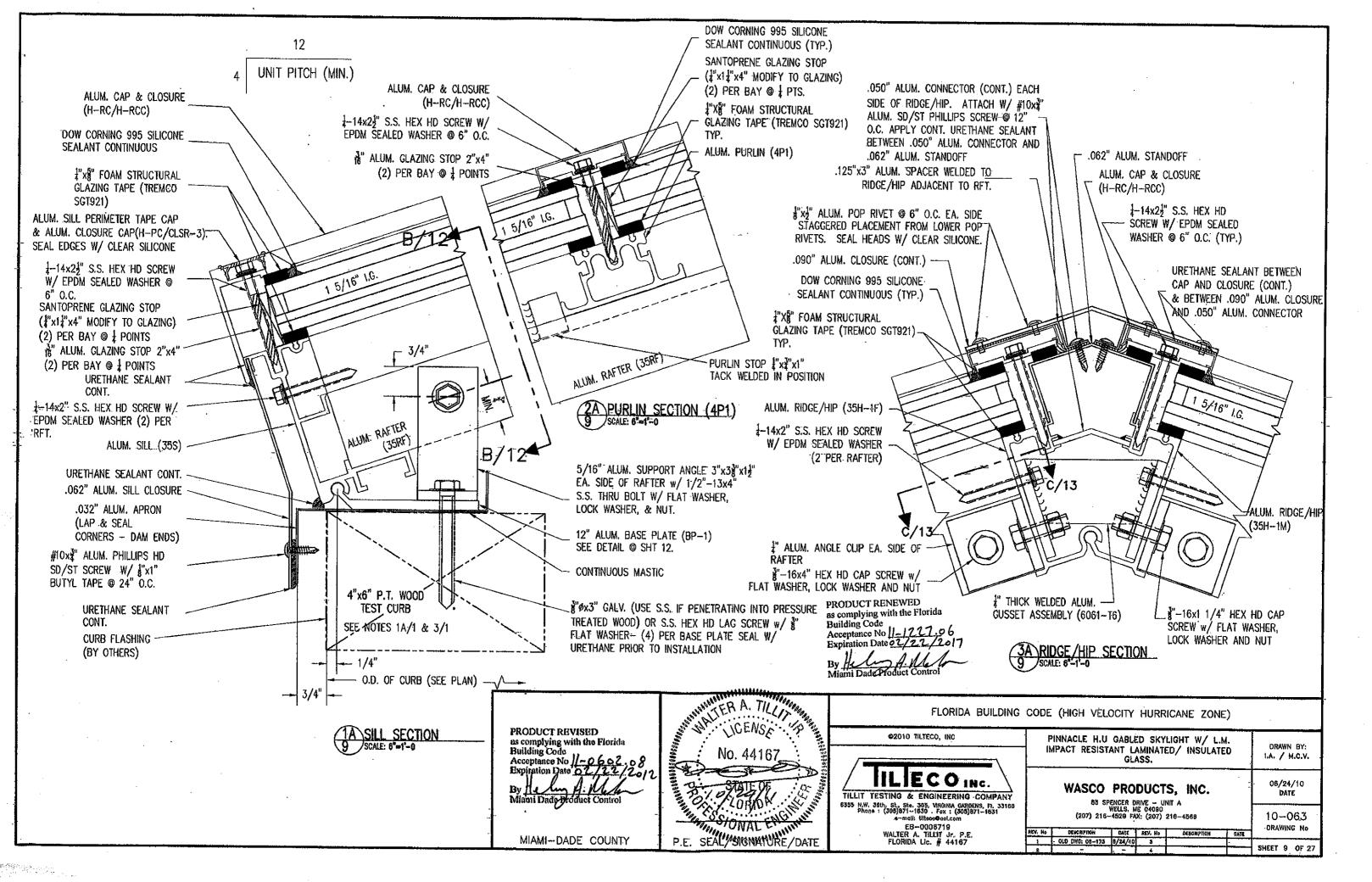


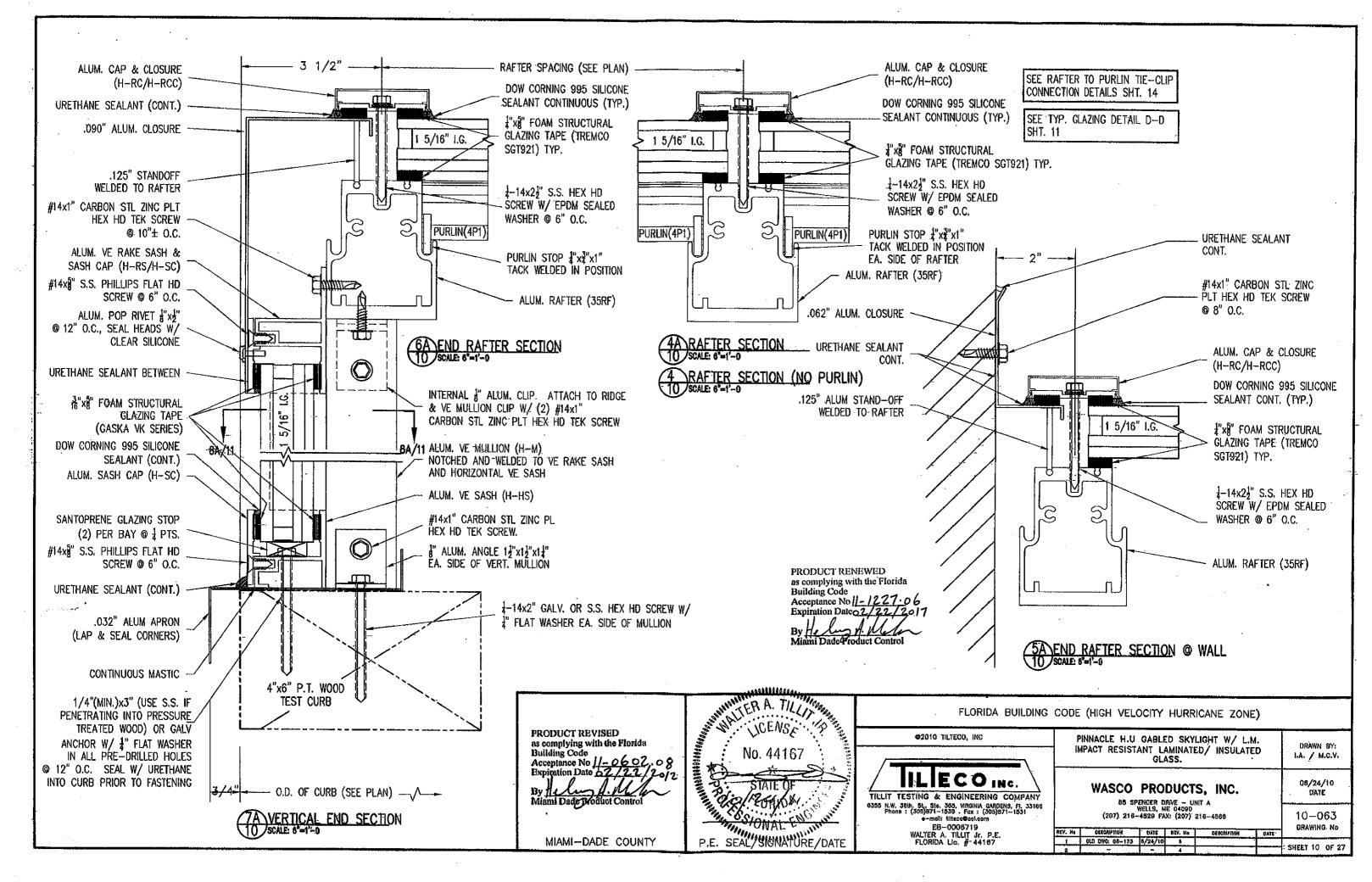


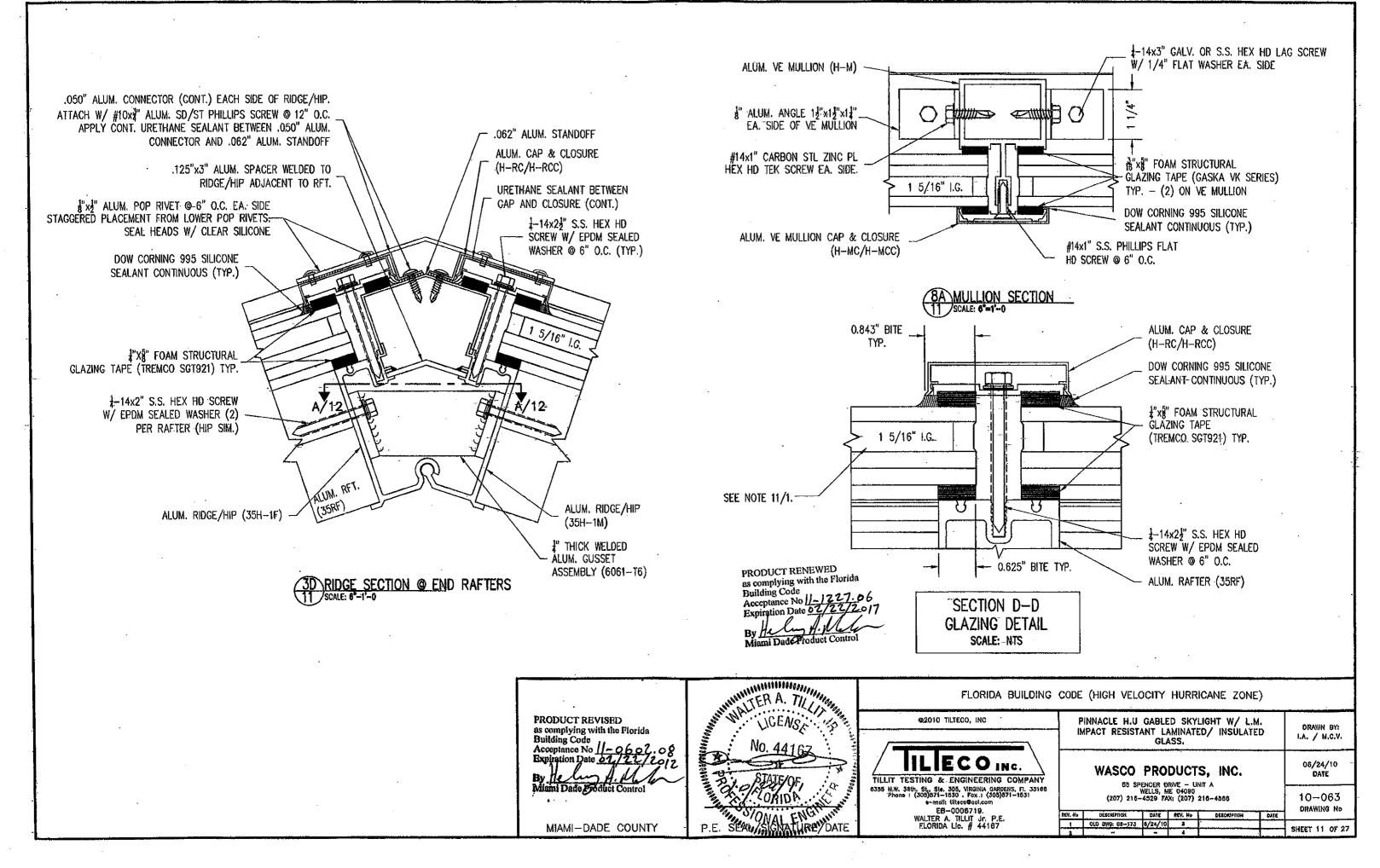


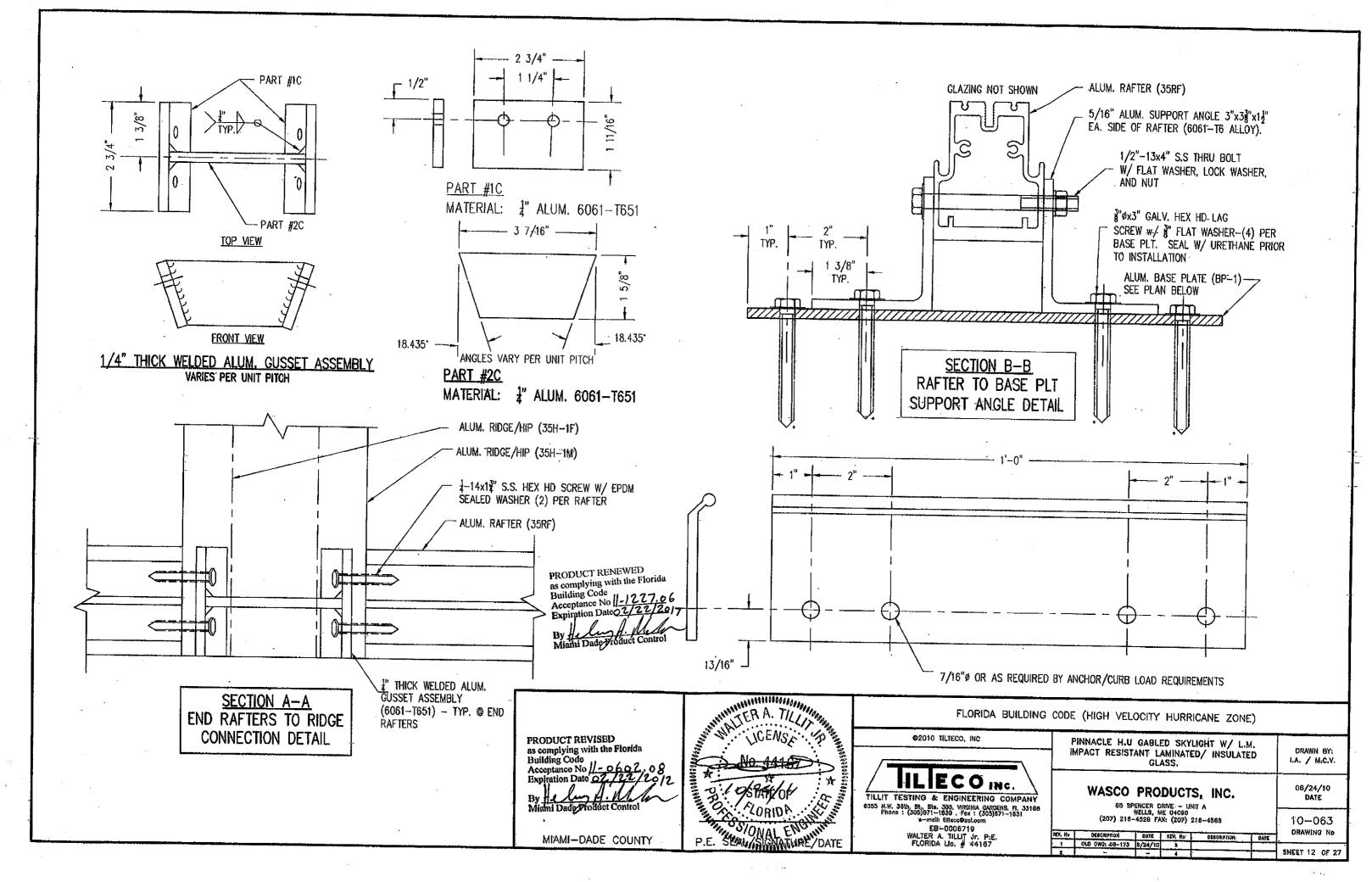


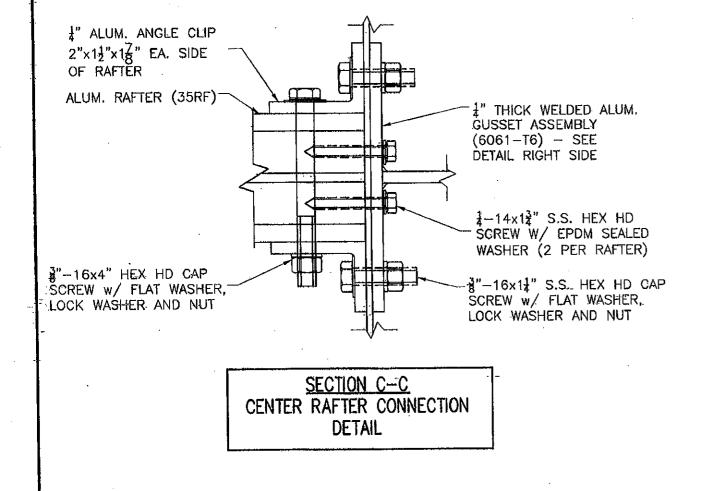


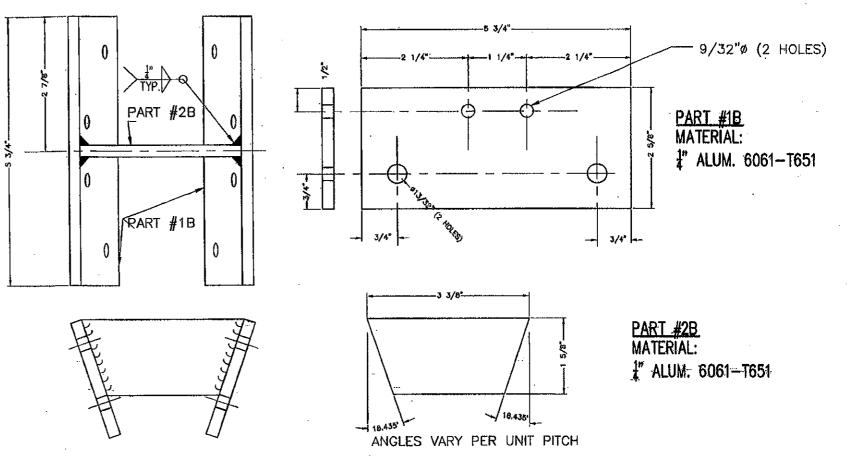




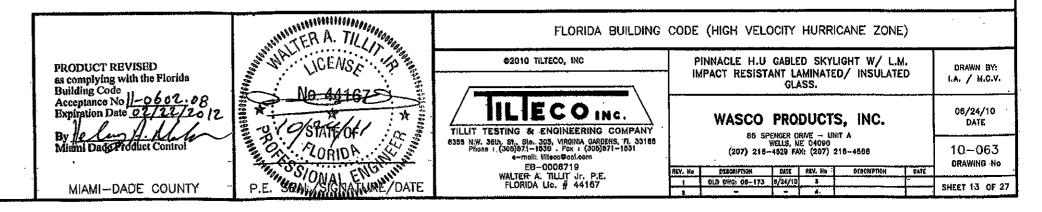


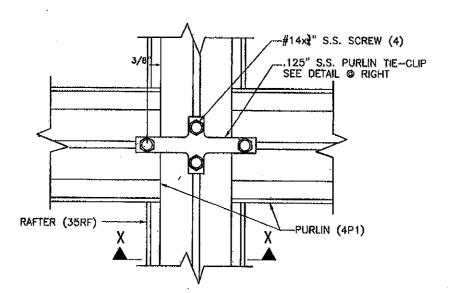




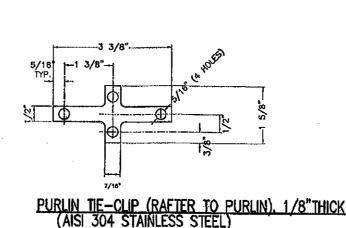


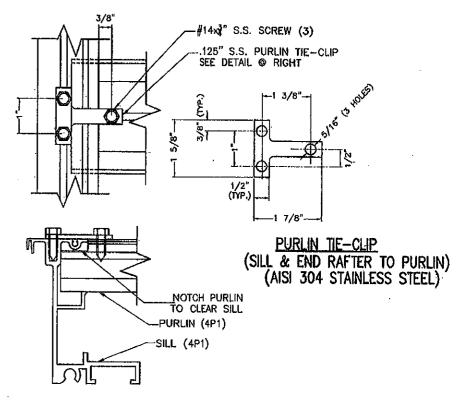
1/4" THICK WELDED ALUM. GUSSET ASSEMBLY



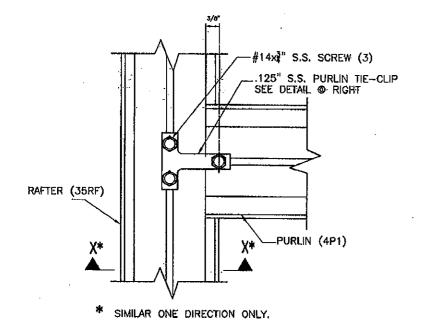


RAFTER TO PURLIN CONNECTION (PLAN)

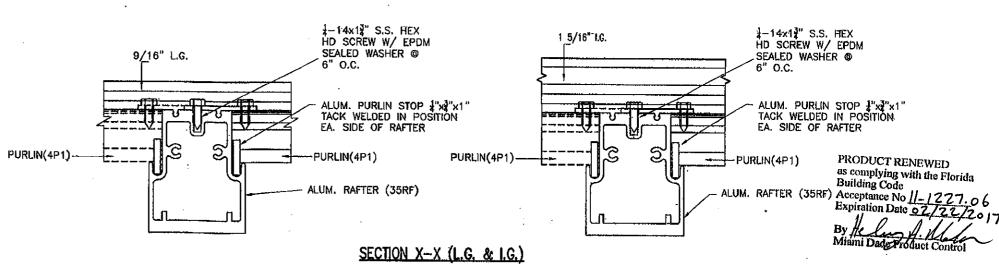


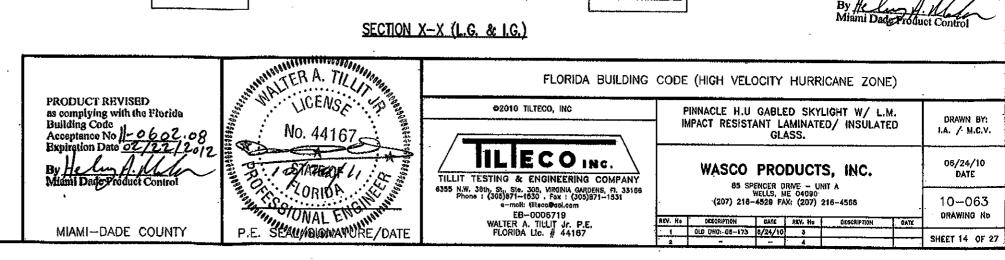


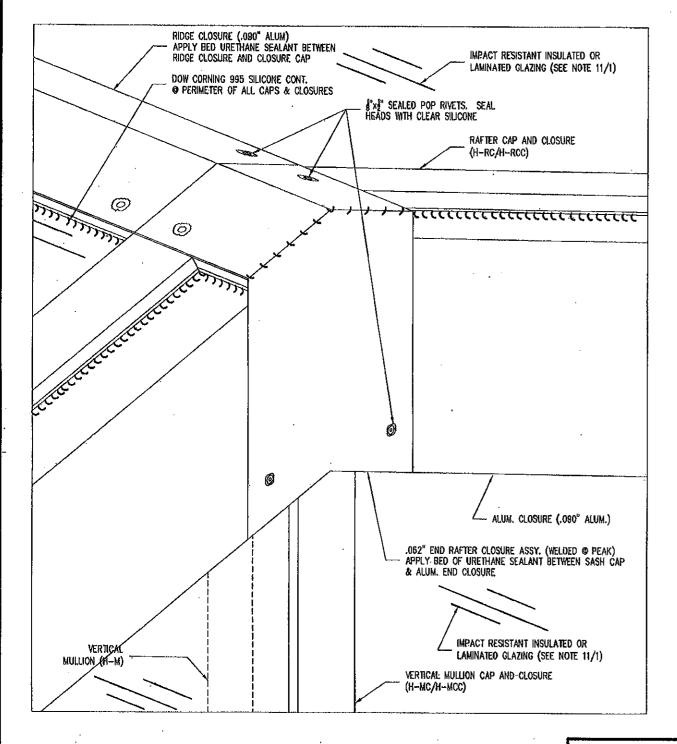
PURLIN TIE-CLIP (SILL TO PURLIN - TYP. SINGLE PITCH UNITS)
(AISI 304 STAINLESS STEEL)

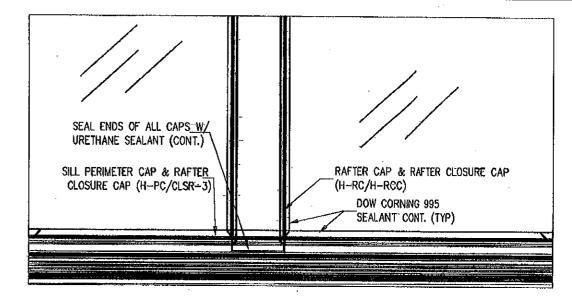


END RAFTER TO PURLIN CONNECTION (PLAN)



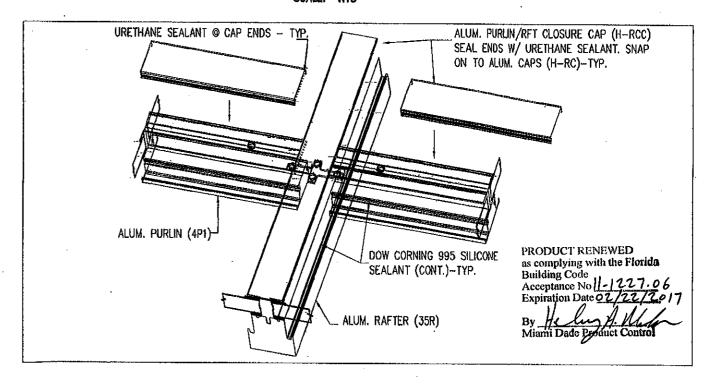






TYP. SEALANT DETAIL AT SILL/RAFTER

SIMILAR AT RAFTER TO RIDGE CAP/CLOSURE CONNECTIONS SCALE: NTS



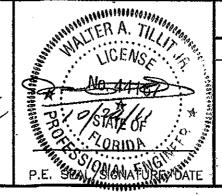
TYP. SEALANT DETAIL AT PURLIN/RAFTER

SCALE: NTS

END RAFTER CLOSURE DETAIL SCALE: 6" = 1'-0"

PRODUCT REVISED as complying with the Florida Acceptance No 11-0602

MIAMI-DADE COUNTY



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

ECO INC. TILLIT TESTING & ENGINEERING COMPANY

92010 TILTECO, INC.

6355 N.W. 36th, St., Ste. 305, MRGINIA GARDENS, FJ. 33168 Phone: (305)871-1530 . Fox: (306)871-1531

-s-moli Nitepo@col.com
EB-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

PINNACLE H.U	GABLED	SKYLIGHT	W/ L.M.
IMPACT RESISTA			NSULATED
GLASS.			

WASCO PRODUCTS, INC.

85 SPENCER DRIVE - UNIT A WELLS, ME 04080 (207) 216-4529 FAX: (207) 218-4586

10~063 DRAWING No DESCRIPTION DATE REV. Ho 1 OLD DWG: 06-173 B/24/10

DRAWN BY: I.A. / M.C.V.

06/24/10 Date

SHEET 15 OF 27

HU-OPY HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED / INSULATED GLASS (VALID ONLY FOR SHEETS 16 THRU 27)

GENERAL NOTES:

1. HU-CPY HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED / INSULATED GLASS SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE. THIS HU-OPY HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED / INSULATED GLASS MAY BE INSTALLED AT HIGH VELOCITY

DESIGN LIVE AND WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1616 AND 1620 OF THE ABOVE MENTIONED CODE, IN ORDER TO VERIFY THAT FASTENERS AND ANCHORS ON THIS P.A.D. ARE NOT OVERSTRESSED FOR EVERY SINGLE APPLICATION OF THIS SKYLIGHT SYSTEM UNDER THE DESIGN PRESSURE RATINGS INDICATED ON NOTE 2 BELOW, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS SHALL NOT BE USED IN THEIR ANALYSIS.

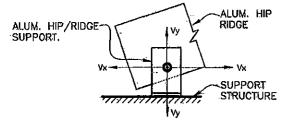
1A. SHOP DRAWINGS AND STRUCTURAL CALCULATIONS SHALL BE SUBMITTED FOR EVERY PERMIT. DRAWINGS MAY INCLUDE LARGER SKYLIGHT WIDTH, LENGTH AND RISE W/ CORRESPONDING LARGER CROSS SECTION HIPS/RIDGES, BUT PRESSURE RATING AS WELL AS MAX. GLASS PANEL SIZE SHALL NOT EXCEED THOSE INDICATED ON THIS DRAWING, (SEE NOTES 2 AND 11 RESPECTIVELY)

THIS P.A.D. COVERS OCTAGONAL PYRAMID SHAPE SKYLIGHTS, OTHER SHAPES/CONFIGURATIONS W/ SLOPED GLASS MAY BE ALSO ACCEPTED, PROVIDED THAT ABOVE MENTIONED CONDITIONS ARE COMPLIED WITH. THE DESIGN OF LARGER COMPONENTS FOR LARGER SKYLIGHTS SHALL BE PERFORMED BY A

P.E. AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT ON A JOB SPECIFIC BASIS. (SEE NOTES 3 & 20).

2. DESIGN PRESSURE RATING AT ROOF IS: +80.0 pef (WINDWARD SIDE), -80.0pef (LEEWARD SIDE) DESIGN PRESSURE RATING AND LARGE MISSILE IMPACT RESISTANCE OBTAINED THRU TESTING AS PER SECTION 1626.2 OF THE FLORIDA BUILDING CODE, PER PROTOCOLS TAS 201, 202, 203, PER AMERICAN TESTING LABORATORY OF SOUTH FLORIDA REPORT # 0519.01-09, WATER AND AIR INFILTRATION TESTING HAS BEEN PERFORMED AS PER PROTOCOL TAS 202, QUALIFYING ASTM E 331 AND ASTM E 283 RESPECTIVELY.

3. STRUCTURAL ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS IS NOT PART OF THIS P.A.D, STRUCTURAL DESIGN OF THE STRUCTURE THAT WILL PROVIDE SUPPORT TO THIS SKYLIGHT SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PROJECT, STRUCTURAL DESIGN SHALL INCLUDE AND TAKE INTO CONSIDERATION THE ACTUAL VX AND VY LOADS TRANSFERRED FROM THIS SKYLIGHT TO THE SUPPORT STRUCTURE, BASED ON DEAD, LIVE & WIND LOADS AND USING THE LOAD COMBINATIONS AS PER SECTIONS 2.3 OR 2.4 OF A.S.C.E. 7-05 STANDARD, ADEQUACY OF SUPPORTING STRUCTURAL MEMBERS SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT ON A JOB SPECIFIC BASIS.



- 4. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, UNLESS OTHERWISE NOTED.
- 5. ALL ALUMINUM SHEET SHALL BE ALUMINUM ASSOCIATION 1100-H14 AND 3003-H14 ALLOY AND HARDNESS (SEE DETAILS).
- 6, ALL SCREWS TO BE STAINLESS STEEL AIS! 304 OR 316 SERIES, WITH MIN, TENSILE LOAD CAPACITY Tu=4275# & MIN, ULTIMATE SHEAR LOAD CAPACITY Su=2700#, PER ASTM B-593 & B-594.
- 7. ALL ALUMINUM POP RIVETS TO BE 5056 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
- 8. BOLTS TO BE STAINLESS STEEL AISI 304 OR 316 SERIES WITH 50 kei Min. YIELD STRENGTH AND 90 kei Min. TENSILE STRENGTH, PER ASTM 8-593 AND B-594.
- 9. GLAZING SYSTEM SHALL COMPRISE OF THE FOLLOWING COMPONENTS:
 - 9.1. 3/8"x5/8" SGT 1 STRUCTURAL GLAZING TAPE FOR LAMINATED GLASS AND 1/4"x5/8" SGT 1 STRUCTURAL GLAZING TAPE FOR INSULATED GLASS, ON INTERIOR AND EXTERIOR SIDE OF GLASS.
 - 9.2. (2) EXTRUDED ALUMINUM 3/16" GLAZING STOPS WERE INSERTED INTO THE SILL EXTRUSION (35S) AT 1/4" POINTS UNDER GLASS.
 - 9.3. STRUCTURAL SILICONE FOR GLASS SEALANT AT SILL AND SLOPPED MULLIONS TO BE DOW CORNING 995 SILICONE STRUCTURAL ADHESIVE.
 - 9.4. (2) BLACK THERMOPLASTIC RUBBER 1 1/4" GLAZING BUMPERS AT BOTTOM OF GLASS, LOCATED AT 1/4" POINTS.

PRODUCT RENEWED as complying with the Florida **Building Code** Acceptance No ||-|227:06 Expiration Date 02/22/2017

Miami Dade Product Control

PRODUCT REVISED

as complying with the Florida **Building Code** Acceptance No 11-0602.08
Expiration Date 02/22/2012 MIAMI-DADE COUNTY

WALTER A. TILLIAM P.E. SEALUNGIOMATURE/DATE

10. ALL SPLICED FLASHING (ALUM, APRON) TO BE LAPPED WITH 3" MIN. OVERLAP AND SEALED WITH TREMCO VULKEM SEALANT.

11. GLASS OPTIONS:

(a) 9/16" LAMINATED GLAZING CONSISTING OF: 1/4" THICK CLEAR HEAT STRENGTHENED GLASS +0.090" THICK MIAMI-DADE COUNTY APPROVED (NOA # 09-312.03) DUPONT SENTRY GLASS ® INTERLAYER + 1/4" CLEAR HEAT STRENGTHENED GLASS.

(b) 1 5/16" INSULATED GLAZING CONSISTING OF: 1/4" THICK CLEAR TEMPERED GLASS +1/2" AIRSPACE W/ ALUMINUM SPACER OVER 9/16" LAMINATED GLASS MADE WITH 1/4" THICK CLEAR HEAT STRENGTHENED GLASS +0.090" THICK MIAMI-DADE COUNTY APPROVED (NOA # 09-312.03) DUPONT SENTRY GLASS ® INTERLAYER + 1/4" CLEAR HEAT STRENGTHENED GLASS.

(c) NOTES: MAX GLASS PANEL D.L.O SIZE IS 25 1/2"WIDE (AT BASE) x 36 7/8" HIGH (PERPENDICULAR TO BASE). MAX GLASS AREA = 3.270 FT2 BETWEEN SUPPORTS.

12. ALL WELDING TO CONFORM TO THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 2004 EDITION REGULATIONS. USE CERTIFIED WELDERS, USE ER-4043 (IF NOT ANODIZED FINISH) OR ER-5356 (IF ANODIZED FINISH) ELECTRODES.

13. ALUMINUM MEMBERS IN CONTACT WITH CONCRETE SHALL BE PROTECTED ACCORDINGLY WITH SECTION 2003,8.4.4 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE,

14. ALUMINUM MEMBERS IN CONTACT WITH STEEL SHALL BE PROTECTED ACCORDINGLY WITH SECTION 2003.8.4.2 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

15. ALUMINUM MEMBERS IN CONTACT WITH WOOD SHALL BE PROTECTED ACCORDINGLY WITH SECTIONS 2003.8.5 & 2003.8.6 OF THE 2007 EDITION OF THE FLORIDA BUILDING CODE.

16. PAINT, FINISH AND COLOR TO BE SELECTED BY ARCHITECT OF RECORD FOR THE JOB IN COORDINATION W/ WASCO PRODUCTS, INC. AND SHALL COMPLY WITH AAMA 1600 SPECIFICATION, SECTION 3.11.

17. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THIS SKYLIGHT IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. SEE NOTE 3 ABOVE. "CONTRACTOR IS TO SEAL/CAULK" W/ URETHANE SEALANT ALL SKYLIGHT COMPONENT EDGES AS INDICATED ON THIS DRAWING TO PREVENT WIND/RAIN INTRUSION.

18. SKYLIGHT INSTALLATION-SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

19. SKYLIGHT MANUFACTURER'S-LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS: WASCO PRODUCTS SANFORD. MAINE. MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

20. (a) THE PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT,

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS PRODUCT APPROVAL PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(e) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

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TILLIT TESTING & ENGINEERING COMPANY

6368 N.W. 38th, St., Ste. 305, VIRGINIA GARDENS, FL. 33168 Phone: (305)871-1530 . Fox: (305)871-1531

e-moit tittecoGael.com

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE PROFESSIONAL OF RECORD (P.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. PROFESSIONAL OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

"HU-OPY" HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED/INSULATED GLASS.

WASCO PRODUCTS, INC.

85 SPENCER DRIVE - UNIT A WELLS, ME 04090 (207) 216-4529 FAX: (207) 216-4566

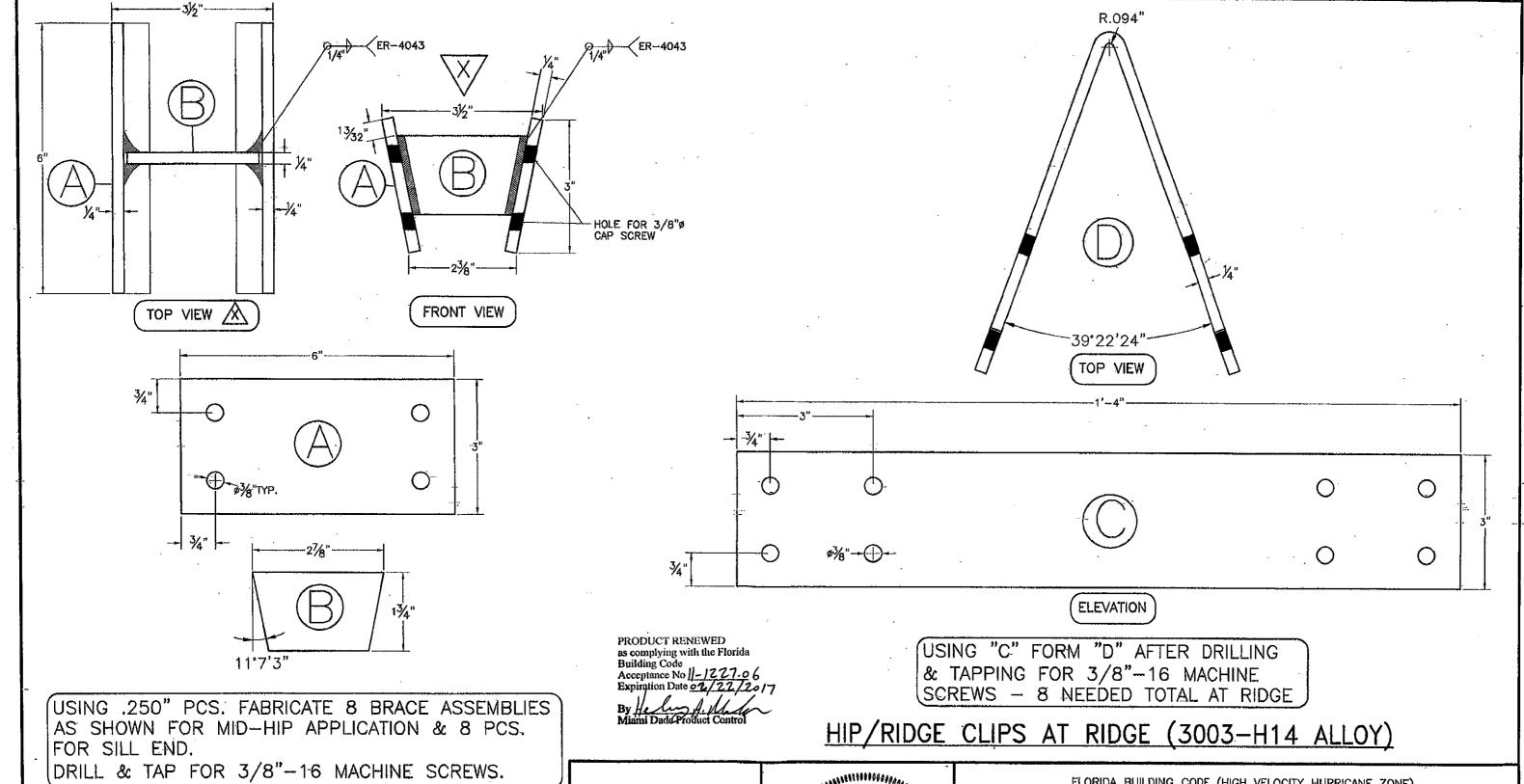
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DRAWN BY:

M.C.V.

06/24/10-

EB-0008719 WALTER A. TILUT- Jr. P.E. FLORIDA LIC, # 44187



BRACE ASSEMBLY (AL25):3003-H14 ALLOY

COMPONENTS

PRODUCT REVISED Acceptance No 1-060 Expiration Date 02/22

MIAMI-DADE COUNTY



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

"HU-OPY" HURRICANE RESISTANT OCTAGONAL **©2010 TILTEGO, INC** SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED/INSULATED GLASS.

WASCO PRODUCTS, INC.

DRAWING No SHEET 17 OF 27

DRAWN BY:

M.C.V.

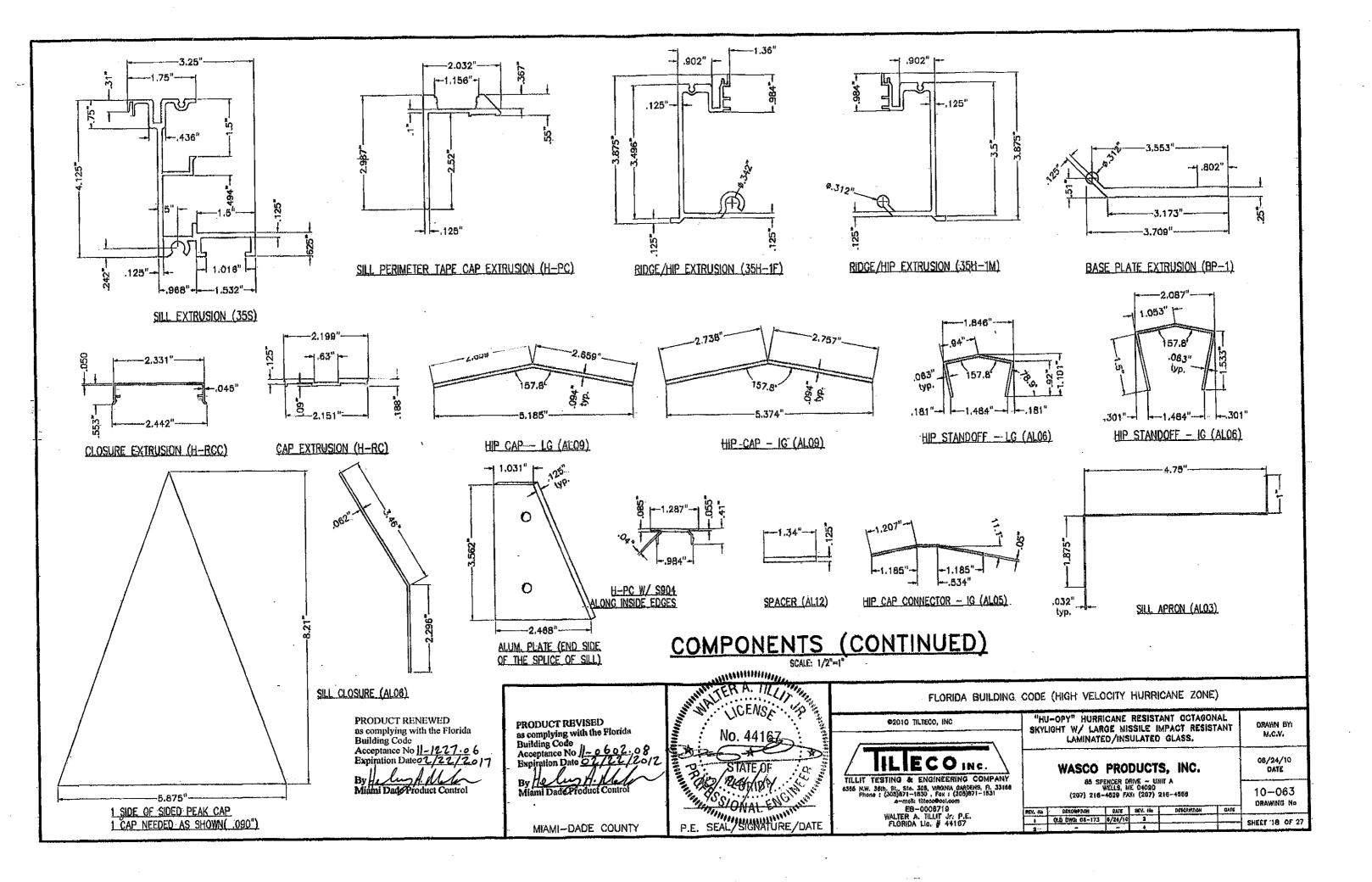
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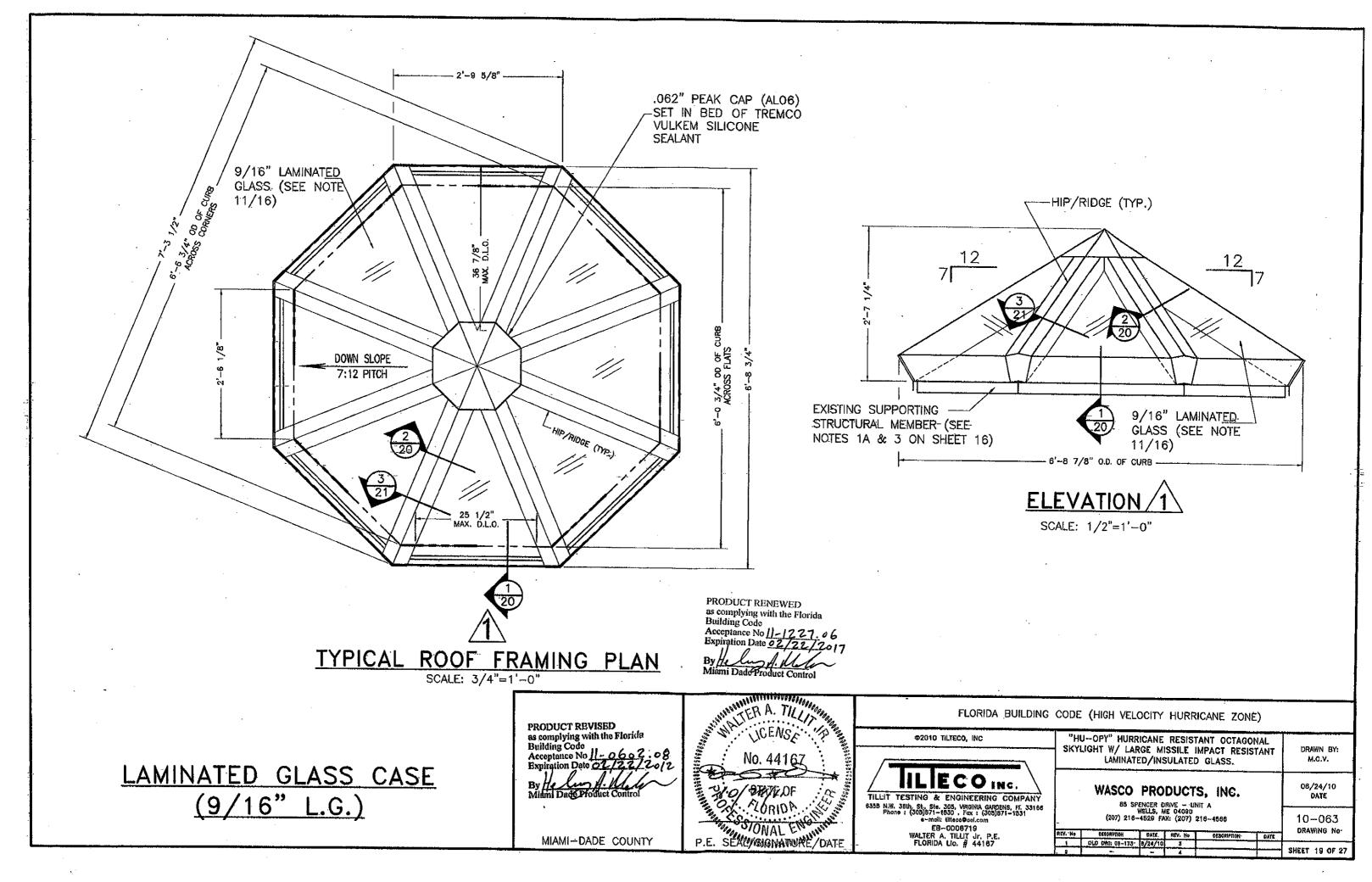
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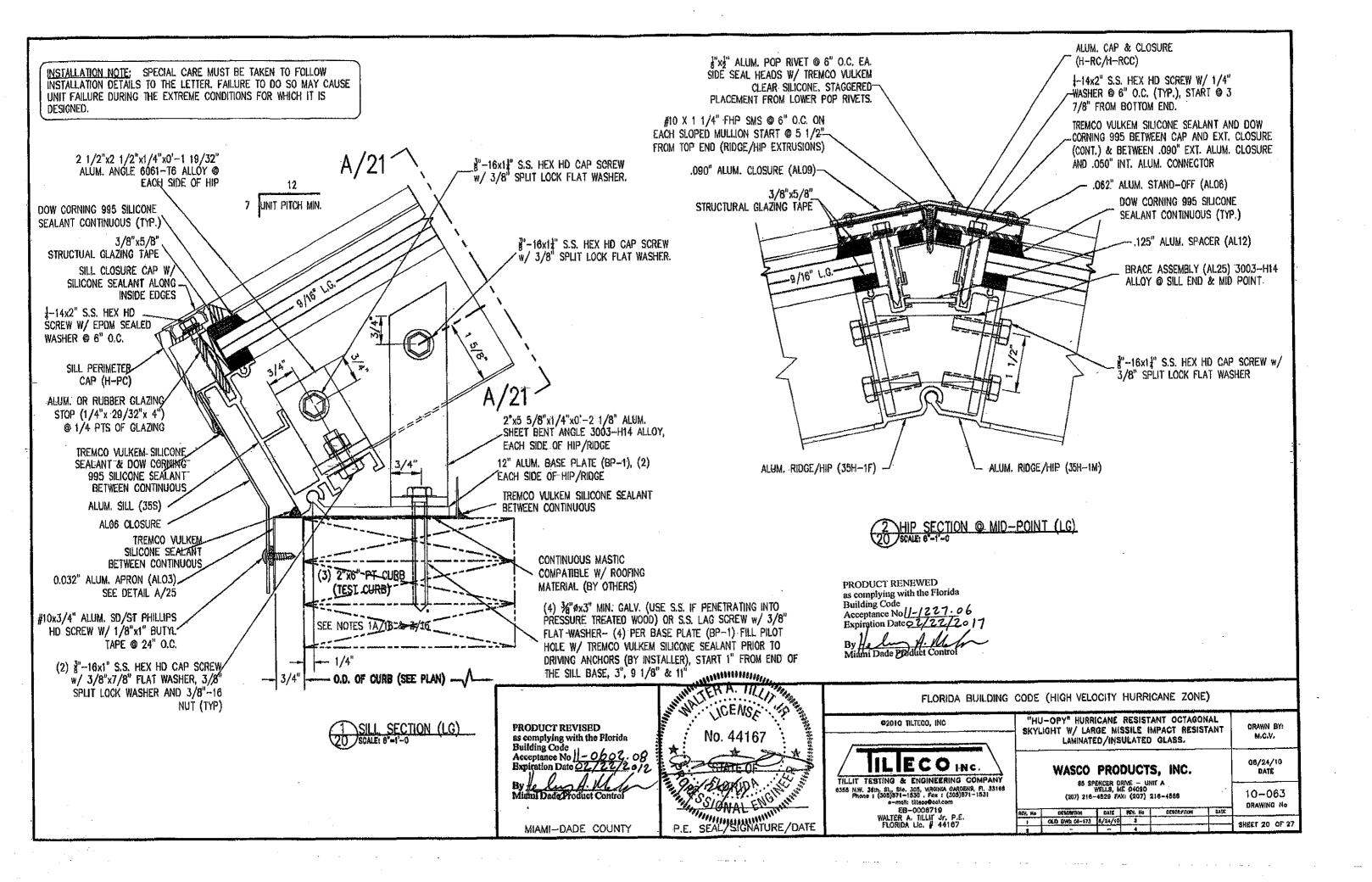
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th. St., Ste. 305, WAGINIA GARDENIS, FI. 33168
Phone: (305)871-1530 . Fax : (305)871-1531

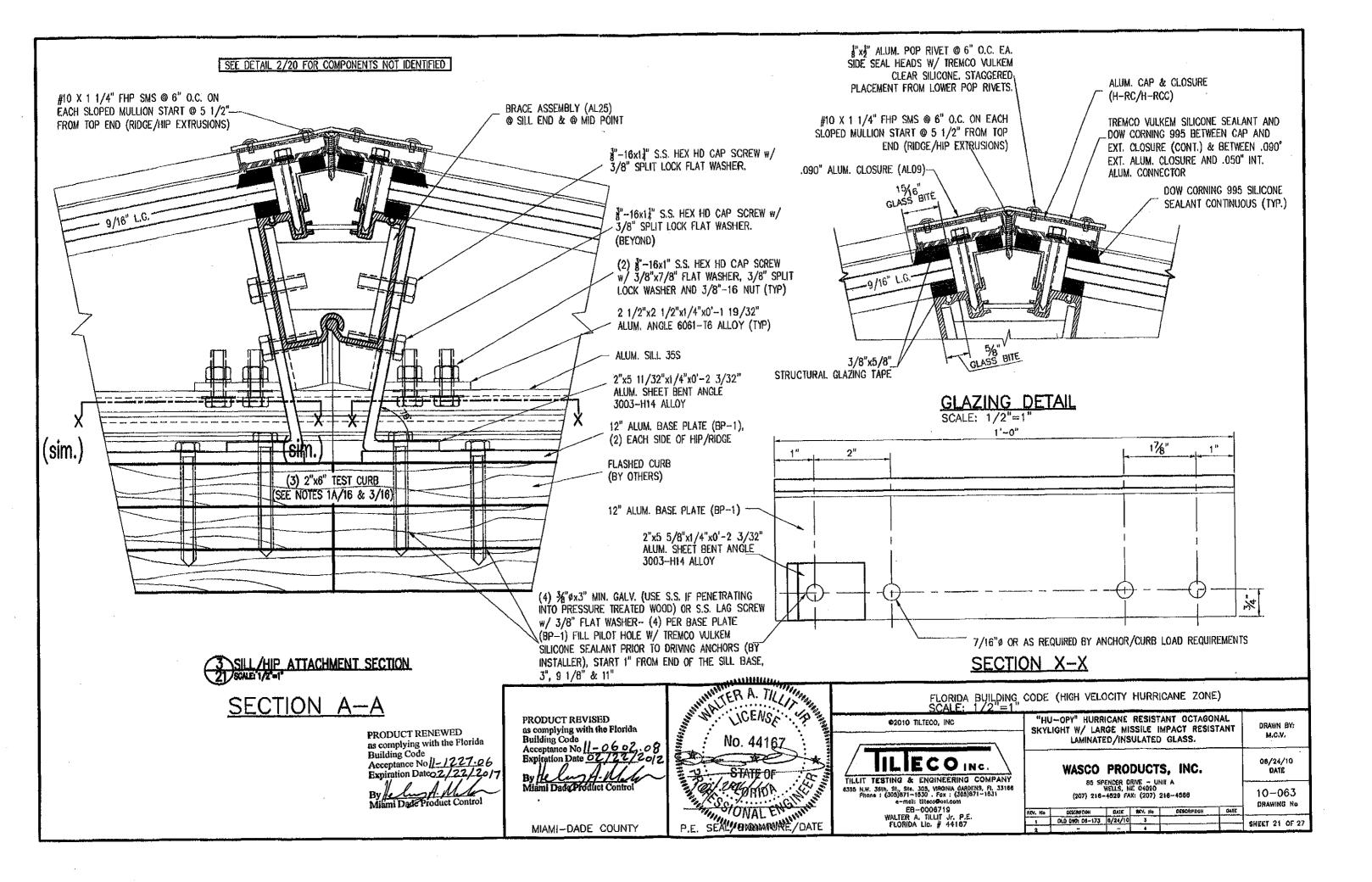
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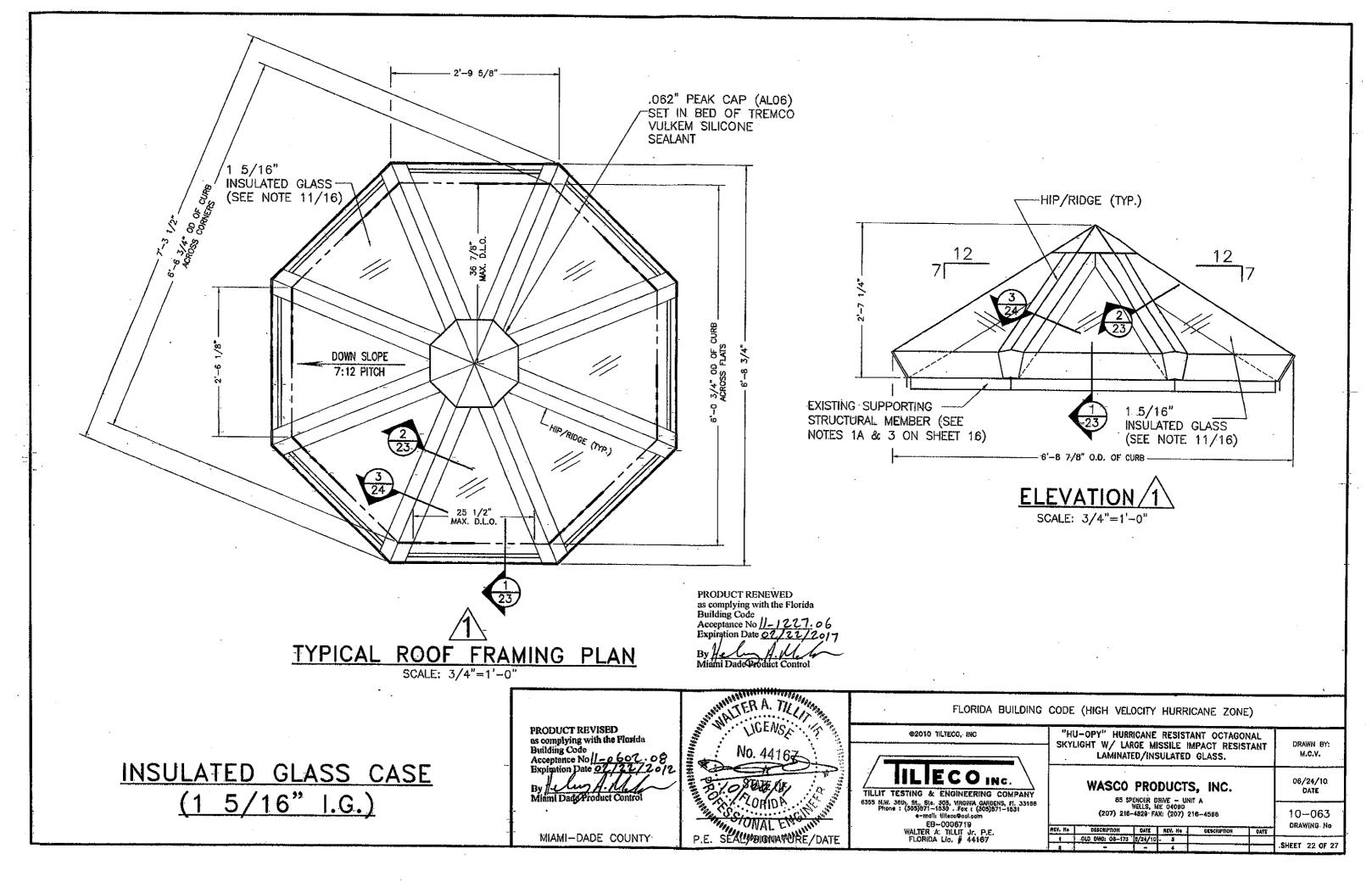
EB-0008719
WALTER A. TILLYT-Jr. P.E.
FLORIDA Lic. # 44167

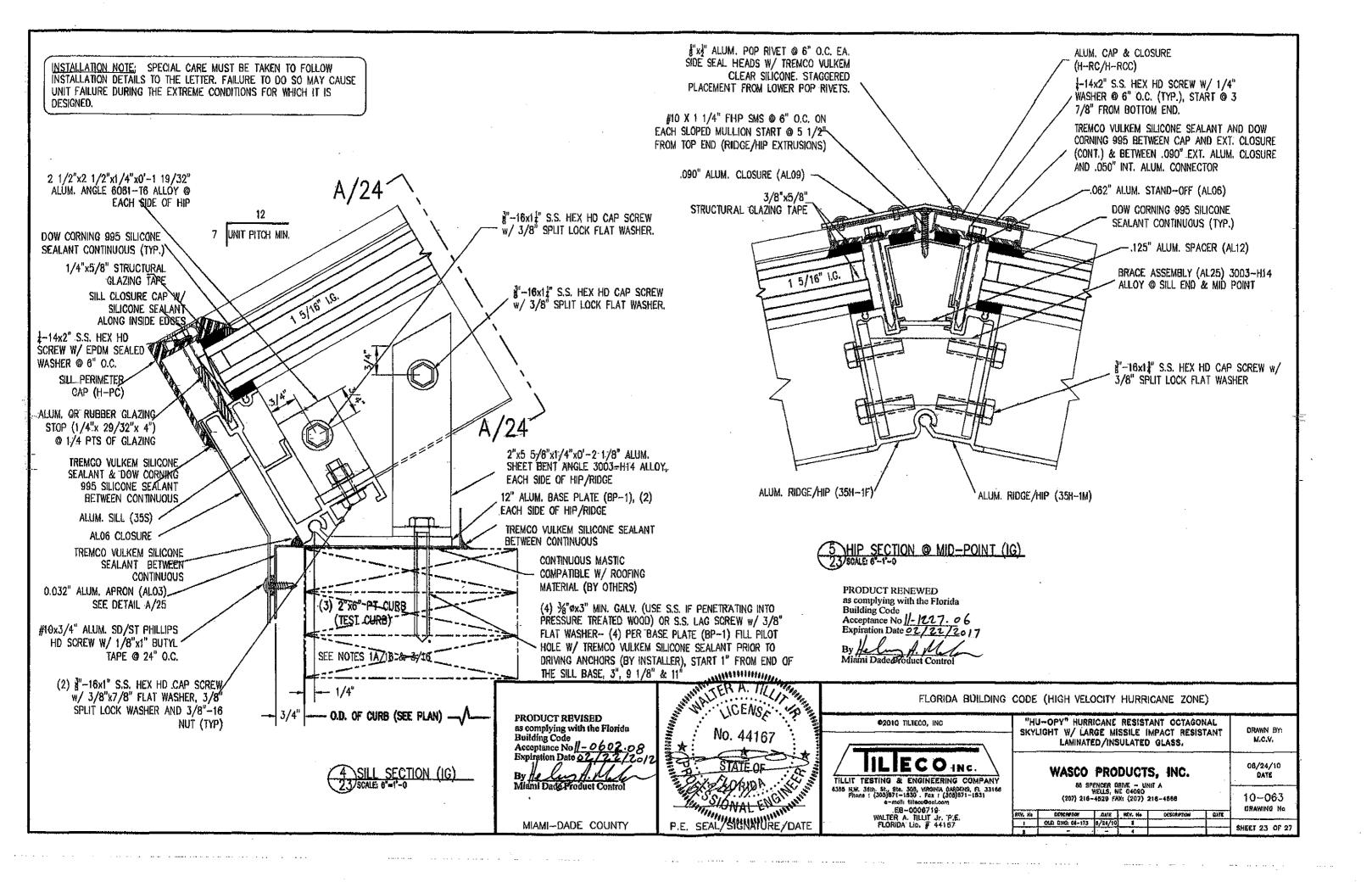


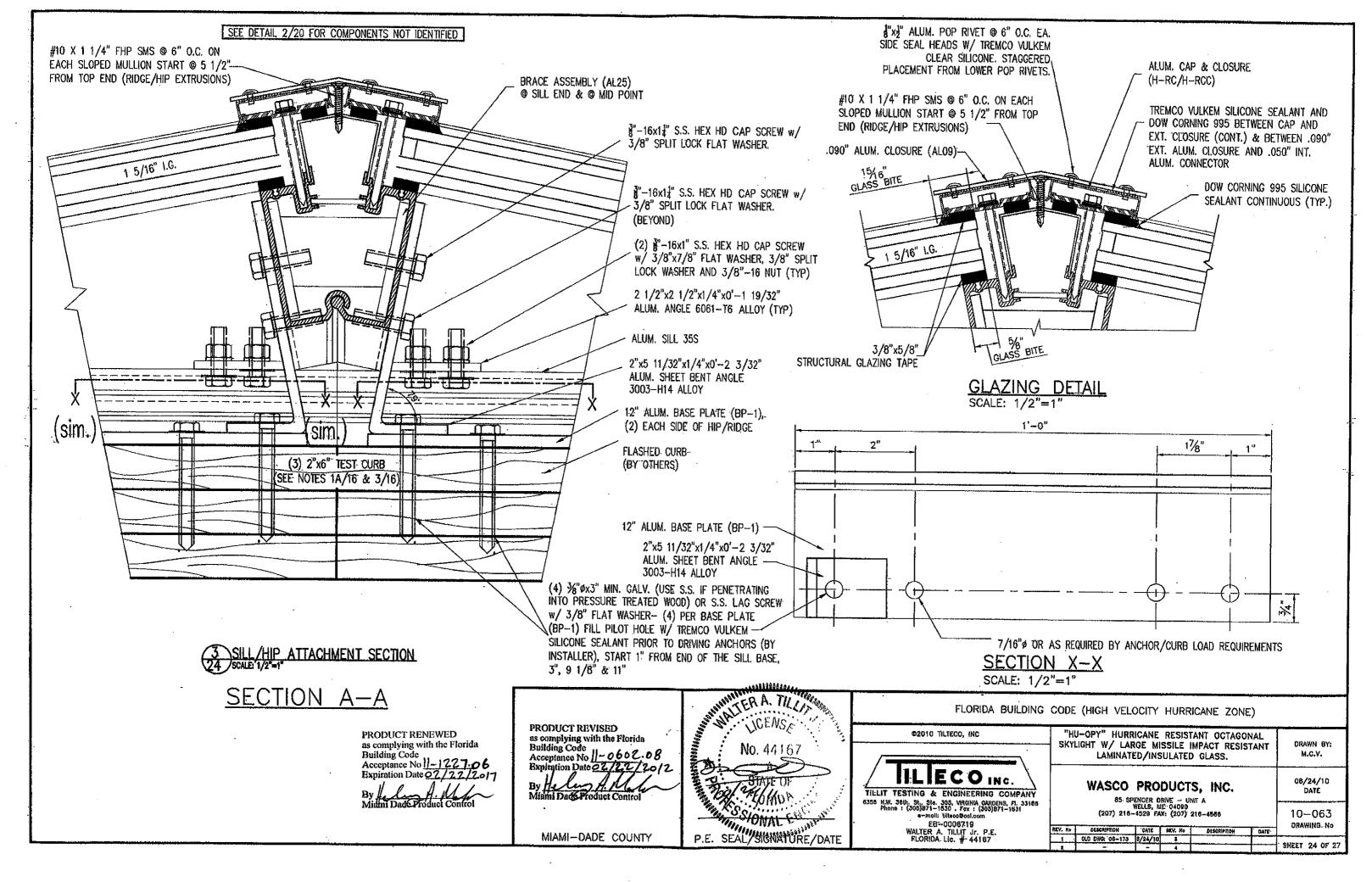


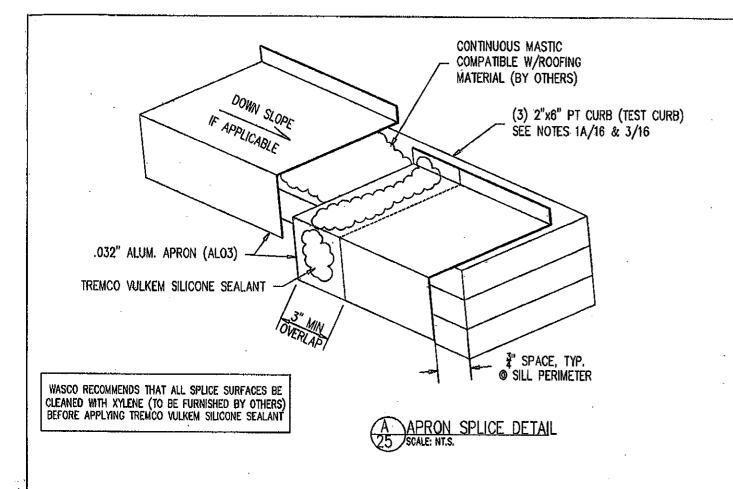


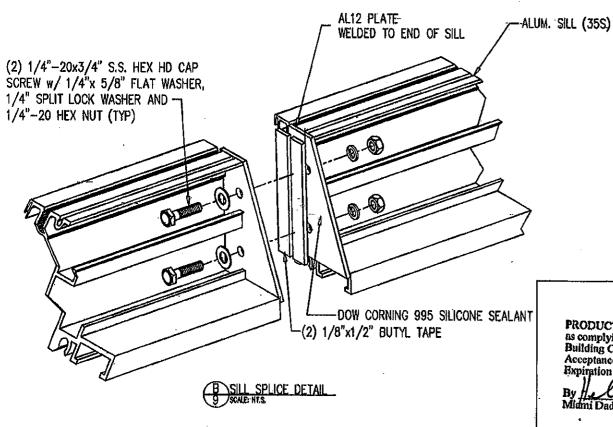












PRODUCT RENEWED as complying with the Florida Building Code Acceptance No 11-1227.06 Expiration Date 02/22/2017

PRODUCT REVISED
as complying with the Florida
Building Code Acceptance No 11-0607.08
Expiration Date 02/22/2012

MIAMI-DADE COUNTY



FLORIDA BUILDING CODE (HIGH VELOCITY HURRICANE ZONE)

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e-moli: titleoscol.com EB-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Llo. # 44167

"HU-OPY" HURRICANE RESISTANT OCTAGONAL SKYLIGHT W/ LARGE MISSILE IMPACT RESISTANT LAMINATED/INSULATED GLASS.

08/24/10 DATE

DRAWN BY:

M.C.V.

WASCO PRODUCTS, INC.

85 SPENCER DRIVE — UNIT A WELLS, ME 04080 (207) 218-4529 FAX: (207) 218-4588

10-063 DRAWING No 1 OLD DW0: 08-175 8/24/10 8 SHEET 25 OF 27

